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WPI Acc no: 1999-080771/199907

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Novel substituted pyrazole p38 kinase inhibitors - and tumour necrosis factor-alpha antag inflammation, asthma or arthritis

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Patent Family (22 patents, 82 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
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Priority Applications (no., kind, date): US 2004840734 A 20040505; US 2003374781 A 20031 20030217; US 2002114297 A 20020402; US 200121780 A 20011207; US 2001918481 A 200 20000224; US 1998196623 A 19981120; US 199883670 A 19980522; WO 1998US10436 A 1

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IL 132

US 70

Alerting Abstract WO A1

Substituted pyrazoles of formula (I) and their salts and tautomers are new. R1 = e.g. H, alkyl, cycloalkenylalkylene, heterocyclalkylene, haloalkyl, haloalkenyl, haloalkynyl, hydroxyalkyl, haloalkoxyalkyl, alkoxyalkyl, alkenoxyalkyl, alkynoxyalkyl, aryloxyalkyl, heterocycloxyalkyl, alkylaminoalkyl, aminoalkyl; alkyl-, alkenyl-, alkynyl-, aryl- or heterocyclalkyl-amino, -sulphinyl or sulphoheterocyclalkyl, alkoxyalkylene, aryloxyalkylene, aminoalkyl, alkylaminoalkyl, arylaminoalkyl, alkylheterocyclalkylene, aralkyl, alkoxycarbonylalkylene, and alkylcycloalkylalkylene, aralkylarylene, alkylheterocyclalkyl, alkylheterocyclalkylene, alkylheterocyclalkylheterocycle; R2 = e.g. H, halo, alkyl, alkenyl, alkynyl, aryl, heterocyclalkyl, haloalkyl, hydroxyalkyl, alkynylamino, arylamino or heterocyclalkylamino; or -CR30R31-(CH2)_j -(CHR34)_m -NR32R33 heterocyclalkylene, aminoalkyl, alkylaminoalkyl, aminocarbonylalkyl, alkoxyalkyl or alkylcarbamoyl, aryloxyalkylene, aminoalkyl, alkylaminoalkyl, arylaminoalkyl, alkylcarbonylalkylene, arylcarbonylalkylene, SO2R36, CONR37R38 or SO2NR39R40; R35-R40 = hydrocarbon, hetero-substituted hydrocarbon, arylaminocarbonyl; R41 = aryl; R3 = pyridinyl, pyrimidinyl, quinolinyl or purinyl (all optionally substituted with alkenoxyalkyl or aryloxyalkyl; R4 = H; or alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl or heterocyclalkyl). USE - (I) are useful for treating TNF mediated disorders and p38 kinase mediated disorders: rheumatoid arthritis, atherosclerosis, arthritis, osteoarthritis, gout, psoriasis, topical inflammatory disease, cardiac reperfusion injury, renal reperfusion injury, thrombotic disease and cachexia (all claimed). Other disclosed diseases to be treated include e.g. fever, metastasis, diabetes, diabetic retinopathy or naphthopathy, angiogenesis, ocular neovascularization.

Title Terms /Index Terms/Additional Words: NOVEL; SUBSTITUTE; PYRAZOLE; KINASE; INFLAMMATION; ASTHMA; ARTHRITIS

Class Codes**International Patent Classification**

IPC	Class Level	Scope	Position	Status	Version Date
A61K-031/44; C07D-401/04			Main		"Version 7"
A61K-031/415; A61K-031/4155; A61K-031/422; A61K-031/427; A61K-031/4439; A61K-031/454; A61K-					

031/4545; A61K-031/496; A61K-031/498; A61K-031/505; A61K-031/506; A61K-031/52; A61K-031/5377; A61P-001/04; A61P-011/00; A61P-011/06; A61P-017/06; A61P-019/02; A61P-019/06; A61P-029/00; A61P-003/14; A61P-031/00; A61P-037/06; A61P-043/00; A61P-007/02; A61P-009/10; C07D-401/00; C07D-401/14; C07D-403/04; C07D-405/14; C07D-409/04; C07D-409/14; C07D-413/04; C07D-413/14; C07D-417/04; C07D-451/02; C07D-453/02; C07D-471/14; C07D-473/00			Secondary	"Version 7"	
A61K-0031/415	A	I		R	20060101
A61K-0031/44	A	I		R	20060101
A61K-0031/4439	A	I	L	B	20060101
A61K-0031/505	A	I		R	20060101
A61K-0031/506	A	I	F	B	20060101
A61P-0011/06	A	I		R	20060101
A61P-0017/06	A	I		R	20060101
A61P-0019/02	A	I		R	20060101
A61P-0009/10	A	I		R	20060101
C07D-0401/04	A	I		R	20060101
C07D-0401/04	A	I	L	B	20060101
C07D-0401/14	A	I		R	20060101
C07D-0403/04	A	I		R	20060101
C07D-0405/14	A	I		R	20060101
C07D-0409/14	A	I		R	20060101
C07D-0413/14	A	I		R	20060101
C07D-0417/14	A	I		R	20060101
C07D-0453/02	A	I		R	20060101
C07D-0471/04	A	I		R	20060101
C07D-0471/14	A	I		R	20060101
C07D-0473/00	A	I		R	20060101
C07D-0487/04	A	I		R	20060101
A61K-0031/415	C	I		R	20060101
A61K-0031/44	C	I		R	20060101
A61K-0031/4427	C	I	L	B	20060101
A61K-0031/505	C	I		R	20060101
A61P-0011/00	C	I		R	20060101
A61P-0017/00	C	I		R	20060101
A61P-0019/00	C	I		R	20060101

A61P-0009/00	C	I		R	20060101
C07D-0401/00	C	I		R	20060101
C07D-0401/00	C	I	L	B	20060101
C07D-0403/00	C	I		R	20060101
C07D-0405/00	C	I		R	20060101
C07D-0409/00	C	I		R	20060101
C07D-0413/00	C	I		R	20060101
C07D-0417/00	C	I		R	20060101
C07D-0453/00	C	I		R	20060101
C07D-0471/00	C	I		R	20060101
C07D-0473/00	C	I		R	20060101
C07D-0487/00	C	I		R	20060101

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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁶ : C07D 401/04, A61K 31/415, 31/44, 31/505, C07D 401/14, 409/14, 413/14, 405/14, 471/04, 417/14, 453/02 // (C07D 471/04, 237:00, 231:00) (C07D 471/04, 237:00, 233:00)</p>	<p>A1</p>	<p>(11) International Publication Number: WO 98/52940</p>
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<p>(21) International Application Number: PCT/US98/10436</p> <p>(22) International Filing Date: 22 May 1998 (22.05.98)</p> <p>(30) Priority Data: 60/047,570 22 May 1997 (22.05.97) US</p> <p>(71) Applicant (for all designated States except US): G.D. SEARLE AND CO. [US/US]; P.O. Box 5110, Chicago, IL 60680 (US).</p> <p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (for US only): ANANTANARAYAN, Ashok [US/US]; 54 Lisk Drive, Hainesville, IL 60030 (US). CLARE, Michael [GB/US]; 5154 West Brown Street, Skokie, IL 60077 (US). COLLINS, Paul, W. [US/US]; 1557 Hawthorne Place, Deerfield, IL 60015 (US). CRICH, Joyce, Zuowu [CN/US]; 1501 G Topp Lane, Glenview, IL 60025 (US). DEVRAJ, Rajesh [IN/US]; 41 Westmeade Court, Chesterfield, MO 63017 (US). FLYNN, Daniel, L. [US/US]; 16868 Kehrsdale Drive, Clarkson Valley, MO 63005 (US). GENG, Lifeng [CN/US]; 5300 Davis Street, Skokie, IL 60077 (US). HANSON, Gunnar, J. [US/US]; 7410 Keystone</p>		<p>Avenue, Skokie, IL 60076 (US). KOSZYK, Francis, J. [US/US]; 11 Wildwood Drive South, Prospect Heights, IL 60070 (US). LIAO, Shuyuan [CN/US]; 2N 500 Diane Avenue, Glen Ellyn, IL 60137 (US). PARTIS, Richard, A. [US/US]; 2221 Noyes Street, Evanston, IL 60201 (US). RAO, Shashidhar, N. [IN/US]; 43 Windsor Place, Mundelein, IL 60060 (US). SELNESS, Shaun, Raj [US/US]; Apartment J, 12387 Cross Creek Cove, St. Louis, MO 63141 (US). SOUTH, Michael, S. [US/US]; 11671 Chieftain Drive, St. Louis, MO 63146 (US). STRALEY, Michael, A. [US/US]; 502 Juniper Parkway, Libertyville, IL 60048 (US). WEIER, Richard, M. [US/US]; 240 Hickory Court, Lake Bluff, IL 60044 (US). XU, Xiangdong [CN/US]; Apartment 715, 855 Hinman Avenue, Evanston, IL 60202 (US).</p> <p>(74) Agents: ROEDEL, John, K., Jr. et al.; Senniger, Powers, Leavitt and Roedel, 16th floor, One Metropolitan Square, St. Louis, MO 63102 (US).</p> <p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</p>
<p>(54) Title: SUBSTITUTED PYRAZOLES AS p38 KINASE INHIBITORS</p>		
<p>(57) Abstract</p> <p>A class of pyrazole derivatives is described for use in treating p38 kinase mediated disorders. Compounds of particular interest are defined by Formula (I) wherein R¹, R², R³ and R⁴ are as described in the specification.</p> <div data-bbox="1023 1407 1380 1659"> <p style="text-align: right;">(I)</p> </div>		